रजिस्ट्री सं० डी-(डी)—78

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

## भाग III—खण्ड 2

## PART III—SECTION 2

## पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

## Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 18th November 1978

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

**12th October, 1978**

1102/Cal/78. Bunker Ramo Corporation. Low cost electrical connector.

1103/Cal/78. Bunker Ramo Corporation. Fiber optic multi-cable pair connector.

1104/Cal/78. T. J. Kearney. Paint spray booth with water wash. (October 14, 1977).

1105/Cal/78. J. Prager. Frame for displaying photographs or the like. (October 13, 1977).

1106/Cal/78. Raychem Corporation. Improvements relating to rail wheels. (April 13, 1978).

**13th October, 1978**

1107/Cal/78. Kabel-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Device for transporting thermal energy.

1108/Cal/78. General Electric Company. Polycrystalline diamond body.

1109/Cal/78. General Electric Company. Polycrystalline diamond body/silicon carbide or silicon nitride substrate composite.

1110/Cal/78. Siemsns Aktiengesellschaft. Electrically insulating castings for power cable junctions.

1111/Cal/78. Bunker Ramo Corporation. Unitary hooded electrical contact.

1112/Cal/78. J. C. Pohlman and J. P. Romualdi. Pole construction.

1113/Cal/78. Westinghouse Air Brake Company. Housing for draft gear.

1114/Cal/78. Lolift (U.K.) Limited. Improvements relating to material containers. (October 14, 1977).

1115/Cal/78. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Fuel injector for internal combustion engines.

16th October, 1978

1116/Cal/78. Societa' Nazionale Industria Applicazioni Viscosa S.p.A. Improved process and device for the continuous spinning of viscose rayon.

1117/Cal/78. Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Improvements in or relating to a travelling on-track machine for smoothing out irregularities, particularly ridges, on the rail head surfaces of laid tracks.

1118/Cal/78. Hoechst Aktiengesellschaft. Process for improving the processing properties of powdery polyolefins.

1119/Cal/78. Bunker Ramo Corporation. Electrical connector with environmental seal.

1120/Cal/78. Chloride India Limited. Improved dry charge process for drying formed negative electrode plates suitable for use in storage batteries.

1121/Cal/78. Vulcan Australia Limited. Solar tracking apparatus.

1122/Cal/78. Phillips Petroleum Company. Process for passivating cracking catalyst and treating agent thercfor.

17th October, 1978

1123/Cal/78. L. R. Simmons. Combination tank transporter and general cargo trailer.

1124/Cal/78. Veb Filmfabrik Wolfen. Photographs silver halide materials.

1125/Cal/78. Phillips Petroleum Company. Method and apparatus for producing carbon black.

18th October, 1978

1126/Cal/78. B. K. Garodia. Improvements in or relating to clips for fastening electric or telephone cables, electric conductors, pipes or the like.

1127/Cal/78. Plastimax India. Spray gun.

1128/Cal/78. Ihara Chemical Industry Co. Ltd. Process for producing thiolcarbamates.

1129/Cal/78. Linde Aktiengesellschaft. Improvement in or relating to the adsorptive purification of gases.

APPLICATION FOR PATENTS FILED AT THE (DELHI BRANCH)

4th September, 1978

653/Del/78. Imperial Chemical Industries Limited. Recovering chlorinated polymers from solution. (November 28, 1977) [Addition to No. 167/Del/77].

654/Del/78. B. Mehra. A blocking tool.

655/Del/78. B. Mehra. An apparatus for the manufacture of lenses.

6th September, 1978

656/Del/78. Council of Scientific and Industrial Research. A process for the synthesis of substituted-3, 5-dihalosalicylanilides.

7th September, 1978

657/Del/78. Chloride Silent Power Limited. Improvements in or relating to sodium sulphur cells. (September 19, 1977).

658/Del/78. L. Wiking. A pack, comprising a stack of abutting rectangular plates, intended for a regenerative heat exchanger, and a method of manufacturing such a pack.

659/Del/78. Aluminium Pechiney. Process for the purification of solutions containing a sodium or potassium carbonate, sulphate, and possibly hydroxide, and at least one of the metals vanadium, uranium and molybdenum.

660/Del/78. DE Beers Industrial Diamond Division (Proprietary) Limited. Abrasive materials.

661/Del/78. Sentralinstitutt for Industriell Forskning. Arrangement for concentrating sea waves.

662/Del/78. Halliburton Company. Method of treating subterranean well formations.

8th September, 1978

663/Del/78. L. N. Misra and J. G. Srivastava. A simple and cheap chemical process for getting a high class tanning material from sandal-wood bark.

664/Del/78. The National Industrial Development Corporation Ltd. A solar collector. [Divisional date October 7, 1977].

11th September, 1978

665/Del/78. B. Mehra. A bicentric lens.

666/Del/78. Sodetal, Societe Pour LE Development Du Fil Metallique. The manufacture of elongated bodies of high strength carbon steel. (March 9, 1978).

12th September, 1978

667/Del/78. Mr. R. K. Jain. An improved process for the Manufacture of matrix boards.

668/Del/78. Bayer Aktiengesellschaft. Resins based on novolaks, their production and their use as tackifiers.

669/Del/78. Bayer Aktiengesellschaft. Process for the preparation of bis-triazolylstilbenes.

670/Del/78. LE Material Telephonique. A telephone exchange. (September 4, 1978).

13th September, 1978

671/Del/78. The Director General, Research Designs & Standards Organisation, Government of India, Ministry of Railways. A self closing tap.

672/Del/78. D. N. Bhel. An improved match box.

673/Del/78. D. N. Bhel. An improved match stick.

14th September, 1978

674/Del/78. Lindauer Dornier Gesellschaft MBH. Method for the production of a double pile fabric with single weft insertion. (August 14, 1978).

15th September, 1978

675/Del/78. Canron Corp. Single beam reference system for railway surveying.

19th September, 1978

676/Del/78. Automotive Products Limited. Brake fluid reservoirs. (October 25, 1977).

677/Del/78. The General Tire & Rubber Company. Optimum rubber mill roll cooling water temperature determination.

678/Del/78. E. R. Squibb & Sons, Inc. Proline derivatives and related compounds. [Divisional date January 20, 1977].

679/Del/78. E. R. Squibb & Sons, Inc. Proline derivatives and related compounds. [Divisional date January 20, 1977].

680/Del/78. E. R. Squibb & Sons, Inc. Proline derivatives and related compounds. [Divisional date January 20, 1977].

681/Del/78. E. R. Squibb & Sons, Inc. Proline derivatives and related compounds. [January 20, 1977]

20th September, 1978

682/Del/78. B. Mehra. An apparatus.

683/Del/78. Dobson Park Industries Limited. Charge gun for an hydraulic prop or jack. (May 25, 1978).

684/Del/78. J. D. Wishart. Improved split cycle internal combustion engines. (September 22, 1977).

685/Del/78. R. S. Thapar. An adjustable weaner-cum-inflatory valve.

21st September, 1978

686/Del/78. O. P. Srivastav. Manufacture, storage and supply of liquid fuel gas (L.F.G.) from acetaldehyde.

687/Del/78. L. N. Misra and J. G. Srivastava. A simple and cheap chemical process for getting a good tanning material from mahogany bark.

688/Del/78. The Director, Central Council for Research in Indian Medicine and Homoeopathy. A process for the isolation of vincristine and vinblastine.

689/Del/78. Shell Internationale Research Maatschappij B.V. Process for preparing hydrocarbons.

690/Del/78. D. C. Little and F. A. Little. Heat sensing means, particularly for solar water heating apparatus. (September 29, 1977).

691/Del/78. W. V. Youdelis. Process for surface coating alloys to enhance corrosion resistance.

692/Del/78. W. V. Youdelis. Chloride salt-silicon alloy slag composites for cast iron melts.

693/Del/78. W. V. Youdelis. Silver-copper-germanium alloys having high oxidation resistant melts.

APPLICATION FOR PATENTS FILED AT THE (BOMBAY BRANCH)

21st August, 1978

246/Bom/78. Dr. Arun Kumar De & Dr. S. G. Kandlikar. Making flat or curved reflective surfaces using aluminized polyester film.

247/Bom/78. Alchemie Research Centre Private Limited. Process for the preparation of novel polystyrene resins functionalised with diethyl malonate.

248/Bom/78. Alchemie Research Centre Private Limited. Process for preparing functionalised polystyrene resin supported catalyst.

249/Bom/78. Alchemie Research Centre Private Limited. Process for the preparation of novel polystyrene resins functionalized with acetoacetic ester.

250/Bom/78. Alchemie Research Centre Private Limited. Process for preparation of a novel polyestyrene resin functionalised with a diketone.

251/Bom/78. Alchemie Research Centre Private Limited. Process for extracting metal using novel polystyrene resins.

252/Bom/78. Alchemie Research Centre Private Limited. Process for the preparation of novel polyestyrene resins functionalisad with alkyl cyanoacetate.

23rd August, 1978

253/Bom/78. S. D. Modak. Twin or multiple filament electric bulb requiring no special holder.

26th August, 1978

254/Bom/78. M. M. Dr. S. S. Chitrao. (1) Use of 84 Ayurvedic Medicinal Plants, (list enclosed) recommended by Charak Samhita, for the manufacture of 84 varieties of Asavas (medicinal plants extracts produced by Sandhana Kriya-fermentation) for the manufacture of 84 diverse varieties of Fortified Ayurvedic medicinal plants concentrates, (with about 40% Alcohol content), with enhanced medicinal efficacy in human ailments, as compared to traditional Asava class of Ayurvedic medical plants extracts preparations; and (2) Use of new technology invented by the present author under an independent claim, for the manufacture of the aforesaid 84 varieties of the fortified Ayurvedic medicinal plants concentrates in the self-generated Alcohol of the Asavas themselves, where from they are produced by 'Stripping cum condensation process, as described in Ancient Ayurvedic Striptures; and (3) Use of new innovatory varieties invented by the present author, under an independent patent claim of the traditional Ayurvedic equipment like 'Varuni Yantra' 'Kacchapa Yantra' 'Mayur Yantra' 'Mochika Yantra', etc etc. for the manufacture of the aforesaid fortified Ayurvedic medicinal plants extracts concentrates.

28th August, 1978

255/Bom/78. Phenoweld Polymer Private Limited. A cabinet. [Addition to No. 40/Bom/78].

256/Bom/78. M. M. Dr. S. S. Chitrao. A new Ayurvedic composite mechanised Plant—(a) strictly adhering to the scientific dicta and basic working design of 'Varuni Class' of 'Yantras' (equipment) variously described in Ancient Ayurvedic literature as 'Varuni Yantra' 'Kacchapa Yantra' 'Mochika Yantra' 'Naadika Yantra' 'Baka Yantra' 'Dheki Yantra' etc,; (b) utilizing more advanced technique of vaporising, stripping and condensation, in the place of simple and crude 'Pot-boiling process' as recommended by Ancient Ayurvedic scriptures; and

(c) encompassing fermentation, vaporizing, stripping, and condensation processes as one continuous operation; and (d) suitably scaling up the whole process to meet the mass-production requirements; for the manufacture of fortified and purified Ayurvedic medicinal plants concentrates as recommended by Ancient Ayurvedic Scriptures, as well as 84 Asava' varieties of as recommended by Charak Samhita, and extracted in the laterly by stripping cum condensation processes.

29th August, 1978

257/Bom/78. M. W. Nene. A novel system for controlling commuter traffic.

30th August, 1978

258/Bom/78. M/s. Camphor & Allied Products Limited. A process for the preparation of 8-oxo-neoisolongifolene.

259/Bom/78. M. D. Mahurkar. Portable dialysis system and pump thereof.

31st August, 1978

260/Bom/78. R. L. Vaswani. A process for producing stereo pictures on flat card paper.

261/Bom/78. Hindustan Lever Limited. Improved detergent bars.

262/Bom/78. V. A. Patel & G. V. Patel. Manufacturing peculiar marble tiles as stated in the complete specification.

263/Bom/78. G. Chhotabhai Patel. A device for condensing vapour contained in gas.

2nd September 1978

264/Bom/78. Ahmedabad Textile Industry's Research Association (Atira). Textiles—flame drying.

4th September 1978

265/Bom/78. Hindustan Lever Limited. Mango Kernel fat composition for use in confectionary. [Divisional date].

266/Bom/78. Dr. Arun Kumar De. (2) Dr. Dybyendra Lal Roy, (3) S. V. Golwalkar, & S. G. Sardesai. Process of preparation of composition for electroless plating of copper on magnetite material. [Divisional date 17th August 1976].

7th September, 1978

267/Bom/78. Sarabhai Research Centre. A process for the preparation of substituted benzhydrindane aliphatic acids and derivatives.

7th September, 1978

268/Bom/78. Indian Petrochemicals Corporation Limited. A process for the regeneration of spent molecular sieve 4A.

8th September, 1978

269/Bom/78. S. D. Pardhy. Improved power generation process by utilising refrigerents.

270/Bom/78. V. P. Asar. Force transducer.

11th September, 1978

271/Bom/78. Jetex Carburettors Private Limited. Improvements in or relating to carburetter.

12th September, 1978

272/Bom/78. S. D. Modak. Twin or multiple sets of filament (heating electrodes) electric florescent tube.

13th September, 1978

273/Bom/78. Elpro International Limited. Improvements in or relating to rectifier.

14th September, 1978

274/Bom/78. Mrs. Shakuntala Ramchandra Dandekar. device preventing inadevertent closure of door.

20th September, 1978

275/Bom/78. Mrs. Aruna Kumar. A.d.c. operated lock for use in automobile.

276/Bom/78. Ion Echange (India) Limited. Multi directional flow filter.

277/Bom/78. The Tata Hydro-Electric Power Supply Co. Ltd., Predistortion of active filters.

21st September, 1978

278/Bom/78. P. L. Rajak. Protective guide earthing wire process, with danger current indicator, stopper and indicature-cum-stopper.

22nd September, 1978

279/Bom/78. S. P. Mudur & L. S. Wakankur. Computer Input Output in Devanagari.

280/Bom/78. Gharda Chemicals Private Limited. An improved process for the manufacture of phenolic compounds.

281/Bom/78. Godrej Soaps Limited. A process for the manufacture of an improved detergent laundry bar or tablet.

282/Bom/78, Godrej Soaps Limited. A process for the manufacture of an improved detergent laundry bar or tablet.

283/ Bom/78. P. K. Dikshit. Improvements in or relating to foot valve.

23rd September, 1978

284/Bom/78. Monsanto Chemicals of India Limited. Motorised knapsack sprayer.

26th September, 1978

285/Bom/78. V. V. Malhotra. A novel suspension file and furniture for such suspension files.

27th September, 1978

286/Bom/78. Colour Chem Limited. New water-soluble brown disazo dyestuffs and process for their manufacture.

287/Bom/78. Colour-Chem Limited. New water-soluble disazo dyestuffs, their chromium complexes and process for their manufacture.

288/Bom/78. The Bombay Textile Research Association. Regeneration of used spindle oil.

28th September, 1978

289/Bom/78. Deccan Sugar Institute. A novel economic cycle for "spentwash" disposal and elimination of pollution hazard.

290/Bom/78. A. S. Nadgauda. Improvements in or relating to projector for converting images obtained from ordinary two dimensional moving films two images having steroscopic or three dimensional effect.

291/Bom/78. Elpro International Limited. A manourable medium voltage, full wave two pulse self contained X-ray tube.

## APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

3rd October 1978

182/Mas/78. P. N. Ananthashayanam Naidu. Improvement in relating to gear operated leak-proof sluice shutter.

183/Mas/78. Shreeshyla Electronics Private Limited. A miniaturised quartz timekeeping system with liquid crystal indication and light reactive drive.

6th October 1978

184/Mas/78. V. Joshua. Water conveyor system.

7th October 1978

185/Mas/78. C. S. Krishnaswamy and C. K. Subramaniam. Method for preserving natural rubber latices from deterioration.

186/Mas/78. C. S. Krishnaswamy and C. K. Subramaniam. Improvements in or relating to the processing of natural rubber.

187/Mas/78. K. M. Gadad. Improvements in or relating to agricultural implements.

9th October 1978

188/Mas/78. Hindustan Machine Tools Ltd. High utility clamped tip type tools for machining operations, i.e., for planning and turning, parting off and grooving and boring.

11th October 1978

189/Mas/78. Prof. O. M. Neelakantan and K. Balasubramanian. A digital equipment to determine the inverse time characteristics of H.R.C. fuses.

190/Mas/78. N. R. Rao. Solar energy crystaliser.

12th October 1978

191/Mas/78.R. Ganesan. Multi-purpose cart.

192/Mas/78. R. Ganesan. Transporter-cum-conveyor.

13th October 1978

193/Mas/78. M. Verghese. The manufacture of metal panels of sandwiched construction.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect or each application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

The Classification given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due Course. The price of each specification is Rs. 2 (postage extra is sent out of India). Requisition for the supply of the printed specifications should be accompanies by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 175H. 145582.

Int. Cl. F16j 8/00.

REINFORCING INSERT FOR PISTON RING GROOVES OF PISTONS.

*Applicant* : MAHLE GMBH, OF 26-46 PRAGSTRASSE, STUTTGART, GERMANY (WEST).

*Inventor* : HERMANN BARTH.

Application No. 2358/Cal/75 filed December 18, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A One-piece annular reinforcement insert for piston ring grooves of light metal pistons, comprising an annular groove formed radially inwards from the outermost periphery of the insert to form opposed flanks, and cylindrical bores extending within the insert and which are filled with the piston material integral with the piston when the insert is moulded into the piston, said bores entering the insert at the upper and lower annular surfaces thereof and being disposed on axes inclined in relation to the central axis of the insert wherein said bores

extend entirely through the two flanks and communicate with the annular grooves, some of said bores being disposed at different angles of inclination to others of said bores.

CLASS 47A & 88D. 145583.

Int. Cl. B01d 47/00; C10j 3/00.

AN IMPROVED PROCESS FOR THE SEPARATION OF TAR AND DUSTS FROM COKE OVEN GAS.

*Applicant* : HOUILLERES DU BASSIN DE LORRAINE, OF 2 RUE DE METZ, 57802 FREYMING-MERLEBACK, (MOSELLE), FRANCE.

*Inventor* : HENRI BRICE.

Application No. 26/Cal/77 filed January 11, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

In a process of treatment of mixture of by-products occurring during charging and distilling bituminous coal for the production of coke in chambers of an horizontal coke oven comprising an hydraulic gas collecting main for offtake of the distillation gas denoted as charging gas main and a principal crude-gas collecting main, wherein opening and closing means providing substantially fluid-tight closure are disposed at least between each chamber and the said charging gas main, said mixture comprising gases, dusts, tar and water vapor, the temperature of said mixture being in the range from 600 to 800°C, in which ammoniacal water are employed in the said mains to cool said mixture, which ammoniacal water-containing mixture is denoted as a mix, and in which said mix coming from the charging gas main is subjected to a step of decantation to obtain on one hand clarified ammoniacal water, and, on the other hand, a product constituted from tar and dusts separated from said ammoniacal waters, the improvement consisting of having at the latest during the step of decantation a step of adjusting in the mix of the charging gas main the weight ratio of said dusts to said tar to a range substantially between 1.3 and 1.6 such as hercin described and of thus obtaining in the step of decantation, tar and dusts in substantially solid form.

CLASS 90-G & 144A. 145584.

Int. Cl. B44d 1/00; 1/02; C03c 7/02; 7/04.

PROCESS FOR ENAMEL COATING OF STEEL ARTICLES.

*Applicant* : INSTITUT OBSCHEI I NEORGANICHESKOI KHIMII AKADEMII NAUK BELORUSSKOI SSR, OF MINSK, TIPOGRAFSKAYA ULITSA, 9, USSR.

*Inventors* : LEV GEORGIEVICH KHODSKY, (2) ALLA IVANOVNA BRAZGOVSKAYA, (3) VALENTINA SERGEEVNA KAMINSKAYA, & EVGENY NIKOLAEVICH PODKLETNOV.

Application No. 294/Cal/77 filed March 1, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

A process for enamel coating of steel articles comprising preparing an enamel dross by mixing Silica sand or pure silicon dioxide, titanium dioxide, Zircon concentrate $ZrSiO_4$, fluospar, lithium carbonate and Soda and optionally $Cr_2O_3$ or $Co_xO_y$, their contents are determined by the contents of their oxides in the enamel, melting them in rotary or hearth-type furnaces at a temperature of 1300 to 1350°C, and fritting the molten mass by pouring into water or passing through rolls; thereafter the fritted enamel is dried at a temperature from 20° —120°C followed by its grindinig in a ball mill after adding clay in an amount of 5 to 7 percent by weight of the frit, an electrolyte such as ammonium chloride, and/or ammonium molybdate and molybdenum anhydride, in an amount of 0.5 to 1 percent by weight of the frit, and when chromium oxide or cobalt oxide is present, the amount being such that the resulting enamel coating contains 0.5 to 2 per cent by weight of $Cr_2O_3$ or $Co_xO_y$ and water in an amount of 40 to 50 percent by weight of the frit to obtain a fineness of 1.4 to 1.5 cms. (by the method of ettling in a Lissenko cylinder), thus prepared dross is then applied to pre-primed steel articles by a method of dipping or spraying and the enamel coating is dried at a temperature of 20—120° followed by calcination at a temperature from 820 to 860° in electric furnaces or in induction units so that the resultant enamel coating has the following compositions, in per cent by weight :

| | | |
|---|---|---|
| | $SiO_2$ | 62.17 to 72 29 |
| — | $TiO_2$ | 0.2 to 9.54 |
| | $Zro_2$ | 0·5 to 9.9 |
| | $CaF_2$ | 2·4 to 6·6 |
| | $Li_2O$ | 0.3 to 5·06 |
| | $Na_2O$ | 10·48 to 19·05 |

CLASS 156-D. 145585.

Int. Cl.-F04b 9/04.

A MECHANICAL PUMP.

*Applicant & Inventor* : MOHAMMED FARUQ DAUDI, OF SHOP NO. 2, MOH. JAGAT SAMBHAL, MORADABAD, INDIA.

Application No. 64/Del/76 filed December 18, 1976.

Addition to No. 1930/Cal/75.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims.

A pump comprising at least of a first and second cylinder, each of said cylinders adapted to be connected to a bore pipe or tubewell through an inlet pipe, a one way valve provided with said cylinders for allowing a flow communication between said cylinders and inlet pipe during a suction cycle, an outlet connected to a discharge port of said cylinders as described in parent patent application No. 143245 characterized in a first set of eccentrics provided for said first cylinders and a second set of eccentrics for said second cylinders, said eccentrics mounted on a common shaft and at 180° difference to each other, a driven gear mounted on said shaft, a drive shaft having a drive gear provided in engagement with said driven gear for working of the said cylinder.

CLASS 25A & 27-I. 145588.

Int. Cl. E04d 1/00.

A STRUCTURAL ELEMENT OR TILE.

*Applicant & Inventor* : DR. ING. KRAMADISWAR DUTT, OF 23 P. K. GUHA ROAD, CALCUTTA-700028, STATE OF WEST BENGAL, INDIA.

Application No. 1288/Cal/76 filed July 19, 1976.

Complete Specification Left. August 19, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A structural element or tile comprising a substantially planar body having a peripherally extending ledge and a peripherally extending ridge defining a central recessed portion on the bottom face of said body.

CLASS 39N & 40F. 145590.

Int. Cl.-C02b 9/00, C01g 37/00.

A METHOD FOR DECONTAMINATING WASTE MATERIAL FROM CHROMIUM MINERAL PROCESSING BY WET TREATMENT WITH SULPHUR.

*Applicant* : LUIGI STOPPANI S.P.A., OF 20123 MILAN (ITALY)-CORSO MAGENTA, 85, ITALY.

*Inventor* : GIOVANNI GHELLI.

Application No. 238/Cal/77 filed February 18, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A method for decontaminating waste materials from chromium mineral processing for obtaining raw material useful for the preparation of chromium compounds wherein the residue of water leaching of the roasted chromium mineral containing water soluble hexavalent chromium compounds is wet ground and classified until obtaining such a granulometrocal distribution that no more than 5-10% of the particles have an average size larger than 0.4 mm, and 40-60% of the particles have an average size less than 0.08 mm., and is then subjected to wet treatment under vigorous stirring at a temperature of 100°C with sulphur, in an aqueous emulsion of alkaline or alkaline earth sulphide for 1-4 hours, the percentage of solids in the reactor being in the range of 1-60% preferably 30-35% by weight; and wherein the reacted slurry is thickened and filtered to provide the restored or decontaminated earth and an effluent, which is partly recycled to grinding or to reaction, and partly sent to the thiosulphate recovery.

CLASS 35E. 145591.

Int. Cl.C04b 35/18.

METHOD OF MANUFACTURING HIGH ALUMINA REFRACTORIES.

*Applicant* : ORISSA CEMENT LIMITED, OF RAJGANGPUR, DIST-SUNDARGARH, ORISSA, INDIA.

*Inventors* : RAMA KANT SHARMA AND DR. SHYAM LAXMAN KOLHATKAR.

Application No. 10/Cal/78 filed January 3, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims. No drawings.

A method of manufacturing high alumina refractories which comprises intimately mixing 80 to 95% by wt. of a high alumina material with 20 to 5% by wt. of clay adding water and chemical binder alumino-chrome-phosphate to the mix, shaping—the wet mix into desired shapes and drying the shaped masses at a temperature 100-300°C to obtain chemically bonded refractories.

CLASS 47C & D. 145592.

Int. Cl.-C10b 47/40, 51/00.

APPARATUS FOR THE LOW-TEMPERATURE CARBONIZATION OF FINE-GRAIN COALS.

*Applicant* : DR. C. OTTO & COMP. GMBH., OF BOCHUM, WEST GERMANY.

*Inventors* : DR. PAUL GERNHARDT, WOLFGANG GRAMS, DR. KARL PETER, WILHELM DANGUILLIER, CHRISTIAN HUNDESHAGEN AND SIEGFRIED POHL.

Application No. 1665/Cal/75 filed August 28, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

Apparatus for the low temperature carbonization of fine-grain coal, said apparatus comprising the combination of : means including a plurality of plates adapted to move downwardly along each two spaced-apart courses of travel, said plates having face surfaces forming one of the opposed sides of a gap wherein fine-grain coal undergoes low temperature carbonization while advanced downwardly by the plates,

a heating chamber having a vertical wall bearing against the back face surfaces of said plates while moving along each course of travel to heat the fine-grain coal in said gap,

means above said plates for introducing fine-grain coal into said gap, and withdrawal means below said plates to receive the carbonized coal issuing from said gap, including means for breaking the withdrawn pieces of low-temperature coke.

CLASS 48A. 145593.

Int. Cl.-H01b 3/00, 17/00.

PROCESS FOR THE PRODUCTION OF A CABLE FITTING AND A CABLE FITTING PRODUCED THEREFROM.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, GERMANY (WEST).

*Inventors* : NORBERT KURDA, ING. (GRAD.) HANS LEHRI, PETER TUSCHY, AND DR. HANS-JOACHIM SCHENCK.

Application No. 2142/Cal/75 filed November 10, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims. No drawings.

A process for the production of a cable fitting around a plastics-insulated electric cable, which comprises placing a cable end or a number of cable ends connected to one another in a housing having an inlet for supply of a foamable plastics casting composition, introducing into the housing a said composition and allowing it to foam and set while remaining in communication with the exterior of the housing, the foamable plastics casting composition being one which :

(a) on being introduced into the housing has a viscosity of from 500 to 15,000 cP/20°C; (b) has a degree of foaming of from 2.5 to 25, (c) has a starting time of at least 5 seconds and a pot time from 40 to 200 seconds.

(d) yields a foam which consists to an extent of at least 75% by volume of closed cells, and (e) yields a foam which possesses a foam strength les sthan the strength of its adhesion to the cable(s), which foam strength is at least 5 kp/cm$^2$.

CLASS 40B. 145594.

Int. Cl.-B01j 11/00.

PROCESS FOR PREPARING CATALYST FOR DEHYDROGENATION OF PARAFFIN HYDROCARBONS TO OLEFINS.

*Applicant & Inventor* : SAMSON BORISOVICH KOGAN, VASILJEVSKY OSTROV, 10, LINIA, 41, KV. 2, LENINGRAD, USSR, (2) NATALIA ROBERTOVNA BURSIAN, MOSKOVSKOE SHOOSSE, 6, KV, 143, LENINGRAD, USSR. (3) BORIS VLADIMIROVICH PANTUSOV, ULITSA SEDOVA, 82, KV. 60, LENINGRAD, USSR. (4) ALEXEI MIKHAILOVICH MOROZ, PROSPEKT TOREZA, 92, KV. 15, LENINGRAD, USSR., AND DMITRY SERGEEVICH ORLOV, AVTORSKAYA ULITSA, 34, KV. 30, LENINGRAD, USSR.

Application No. 1128/Cal/76 filed June 24, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings.

A method of preparing a catalyst for dehydrogenation of paraffin hydrocarbons in a medium of hydrogen comprising impregnation of a carrier, *viz.* active alumina, with solutions of platinum compounds of an alkali metal and compounds of at least one of the three elements, i.e. gallium, indium or thallium, in water or organic solvents such as ethanol or acetone the impregnation being performed at a temperature ranging from 15° to 100°C; the impregnated carrier being dried at a temperature within the range of from 50° to 150°C and calcined at a temperature within the range of from 450° to 550°C.

CLASS 152E. 145597.

Int. Cl.-C08g 17/13; C09k 3/00.

COLOR-STABILIZED HALOBISPHENOLETHYLENE POLYCARBONATES.

*Applicant* : GENERAL ELECTRIC COMPANY, OF 1, RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

*Inventors*: KEITH NORMAN SANNES, & ARNOLD FACTOR.

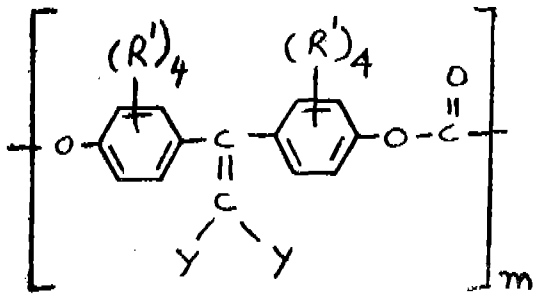
Application No. 285/Cal/77 filed February 28, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

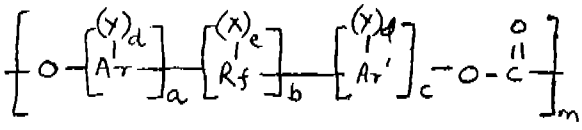
10 Claims.

A thermally stable, color-stabilized halobisphenolethylene polycarbonate composition essentially comprising a mixture of :

(1) from(a) 1—100 parts by weight of halobis-(phenyl) ethylene polycarbonate units of formula (A)



where independently each $R^1$ is hydrogen, chlorine, bromine or a C,30 monovalent hydrocarbon or hydrocarbonoxy group, each Y is hydrogen, chlorine, or bromine subject to the proviso that at least one Y is chlorine or bromine, and m is an integer of at least 2, to (b) about 99-0 parts by weight of arene carbonate units of formula (B);



wherein $R_f$ is an alkylene, alkylidene, cycloalkylene, cycloalkylidene or arylene linkage or a mixture thereof, a linkage selected from the group consisting of ether, carbonyl, amine, a sulphur or phosphorus containing linkage, Ar and Ar' are arene radicals, Y is a substituent selected from the group consisting of organic, inorganic and organometallic radfcals, X is a monovalent hydrocarbon group selected from the class consisting of alkyl, aryl and cycloalkyl and mixtures thereof, a halogen, an ether group of the formula-OE, wherein E is a monovalent hydrocarbon radical similar to X, a monovalent hydrocarbon group of the type represented by $R_f$, d represents a whole number of at least 1, c represents a whole number equal to at least 0 or more, a, b, and c represent whole numbers including 0, a or c but not both may be 0, and wherein n is an integer of at least 2, and

(II) 0.010 to 5.0 parts of a stabilizer comprising an esterified hindered phenol per 100 parts of said halobis (phenyl) ethylene polycarbonate.

CLASS 155B & E & $F_1$ & $F_2$. 145598.

Int. Cl.-D06m 13/06, 13/26.

A PROCESS FOR THE MANUFACTURE OF A FLEXIBLE AND WATER-IMPERMEABLE COVERING SHEET.

*Applicant*: HOLZSTOFF S.A., OF MALGASSE 15, CH-4052 BASEL (SWITZERLAND), (2) VIAFRANCE, OF 6, AVENUE PERCIER, F-75008 PARIS (FRANCE) AND SOCIETE NATIONALE ELF AQUITAINE (PRODUCTION), TOUR AQUITAINE, F-92 COURBEVOIE (FRANCE).

*Inventors*: MAURICE BROSSEL, GILBERT LAURENT AND DANIEL BERTANNIER.

Application No. 543/Cal/77 filed April 11, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A process for the preparation of a flexible, water-impermeable covering sheet with a fibrous reinforcement, which comprises heating to a temperature of 125 to 160°C a binder consisting of an emulsion of sulphur in bitumen in a ratio betwen 15 : 85 and 30 : 70 by weight, the mean size of the sulphur droplets not exceeding 10 microns; adding to the binder one or more additives such as hereinbefore defined suitable for the application envisaged for the sheet; characterized in impregnating a fibrous material uniformly at a temperature of 125 to 145°C with this binder to give an impregnated sheet in which the fibrous material to binder ratio is between 1 : 0.5 and 1 : 60 by weight, the fibrous material weighing 10 to 1000 g/m² and consisting of (A) one or more non-woven fabrics of continuous or short polyester, polyamide, polyvinyl chloride, acrylic or inorganic fibres or fibres made from co-polymers of any of the above materials or fibres made from copolymers of any of the above materials or fibres made from copolymers of any of the above materials or fibres made from mixtures of any of the above materials with each other or with polyolefines; or

(B) a woven fabric comprising continuous or short polyolefine fibres or fibres made from any of the materials listed in A; or (c) a composite made up of a woven fabric and a non-woven fabric, each of which fabrics may be of continuous or short fibres made from any of the materials listed in B, said fibrous material, when wet, being treated prior to the impregnation step with an adhesion promoter consisting either of the acetate of a secondary amine or of a suspension of a quaternary amine in coal tar oil.

CLASS 141B. 145599.

Int. Cl.-C22b 1/08.

IMPROVED ORE HALOGENATION PROCESS.

*Applicant*: TOTH ALUMINUM CORPORATION, OF 5010 LEROY JOHNSON DRIVE, NEW ORLEANS, 70182, UNITED STATES OF AMERICA.

*Inventors*: RONALD WYDHAM AND JOHN CHRISTOPHER TERRY.

Application No. 1/Cal/77 filed January 3, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims. No drawings.

A method to increase the yield and rate of formation of metal chlorides produced from the chlorination of chlorinatable ores comprising metal oxides and salts such as hereindescribed, said method comprising the addition of one or more sulphur-containing members selected from the group consisting of elemental sulfur or functionally equivalent sulfur containing compounds such as hereindescribed to at least one stage of the process before or during chlorination of the ore, and heating the sulfur-containing member and the ore in at least one stage of the process, said one or more sulfur-containing members being present in an amount insufficient to effect the reduction chlorination of most of the ore.

CLASS 139D. 145600.

Int. Cl.-C01b 2/00.

IMPROVEMENT IN A PROCESS FOR THE PRODUCTION OF HYDROGEN-CONTAINING GASEOUS MIXTURE.

*Applicant*: TECNIMONT S.P.A., OF 31, FORO BUONAPARTE, MILAN, ITALY.

*Inventor*: GIORGIO GRAMATICA.

Application No. 935/Cal/77 filed June 22, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

Improvement in the process for the production of hydrogen-containing gaseous mixtures from a hydrocarbon by reaction with steam or steam and air in which at least part of the steam necessary for carrying out the process is generated by saturation with water of the fed hydrocarbon and/or of the air, characterized in that water is heated by means of at

least one heat source which is at a temperature below 420°C, said heat source being selected from the group consisting of combustion fumes and of hot hydrogen containing gaseous product of the process.

CLASS 145F & 191. 145601.

Int. Cl.-B41m 5/00.

A METHOD OF DEWAXING USED OR REJECTED CARBON COPYING PAPER AND DEWAXED CARBON COPYING PAPER OBTAINED THEREBY.

*Applicant & Inventor* : DR. INZ. SURESH CHANDRA JAIN, OF 28, JUNIOR OFFICERS FLATS, DALMIA-NAGAR, BIHAR, INDIA.

Application No. 1712/Cal/77 filed December 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims. No drawings.

A method of dewaxing used or rejected carbon copying paper which comprises wetting by immersing the said used or rejected papers in hot water or an organic solvent such as herein described and keeping said papers in immersed condition for a period sufficient to enable removal of the wax coating from the surface of the papers, isolating the wax containing suspension of water or organic solvent and finally recovering the wax either by cooling the water or by evaporation of the organic solvent.

CLASS 71-E. 145602.

Int. Cl. E02f 3/00.

POWER SHOVEL.

*Applicant* : MARION POWER SHOVEL COMPANY INC., OF 617 WEST CENTER STREET, IN THE CITY OF MARION AND STATE OF OHIO, UNITED STATES OF AMERICA.

*Inventor* : GEORGE BERNARD BARON.

Application No. 2406/Cal/74 filed November 2, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims.

A power shovel comprising a body, a stiffleg pivotally connected at the lower end thereof to said body, a hoist frame pivotally mounted on said stiffleg, a dipper handle pivotally mounted on said hoist frame, a dipper pivotally interconnected to said hoist frame and to said dipper, said stiffleg and the components supported thereon having sufficient weight to provide a self-crowding action of said dipper when said stiffleg is permitted to pivot downwardly, means for pivoting said stiffleg upwardly to retract said dipper, and means for hoisting said dipper.

CLASS 68-D. 145603.

Int. Cl. H02h 3/20.

PROTECTION CIRCUITRY OF LIMITING DYNAMIC OVERVOLTAGES.

*Applicant* : SIBIRSKY NAUCHNO-ISSLEDOVATELSKY INSTITUT ENERGETIKI, ULITSA FRUNZE 9, NOVO-SIBIRSK, USSR.

*Inventors* : GERMAN IVANOVICH SAMORODOV, (2) EVGENY NIKOLAEVICH LOIKO, (3) OREST VIKTOR-VICH OLSHEVSKY.

Application No. 378/Cal/76 filed March 2, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A protection circuitry of limiting dynamic overvoltages in a long distance commercial frequency power transmission line interconnecting a receiving power system and a transmitting power system, comprising batteries of static capacitors and switching devices adapted to connect these batteries of static capacitors to the power transmission line, the period of connecting being dependent on the time within which the dynamic over-voltages exist in the line; two terminals of the said switching device being connected to the output of said batteries of static capacitors and to the said power transmission line at the respective points, the positions of which are derived from theoretical calculations spaced from said transmitting power system and receiving power system by a distance which equals one half of the wave length of the voltages of the commercial frequency.

CLASS 166A. 145604.

Int. Cl.-B63b 3/56, 3/62.

BARGE-CARRYING WATERBORNE VESSEL AND TRANSPORTATION METHOD.

*Applicant* : WHARTON SHIPPING CORPORATION, C/O QUIJANO ASSOCIATES, AVENIDA J. AROSEMENA Y CALLE 32, EDIFICIO VALLARINO, PANAMA.

*Inventors* : WILLIAM EVERETT KIRBY AND DAVID JACKSON SEYMOUR.

Application No. 1259/Cal/76 filed July 13, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A barge-carrying waterborne vessel including in combination :

a hull with rigid supporting and hull-reinforcing structure, a bow, a stern, and side walls providing a series of buoyancy compartments, said hull having a hollow interior defining at least one hold extending most of the length of said vessel and having a bottom always lying below the level of the sea,

hold-flooding means for enabling passage of water from the sea into said hold,

pumping means for pumping water from said hold to dry out said hold,

gate means at one end of said vessel for flotation loading of said hold when said hold is partially flooded, with a plurality of buoyant cargo carriers such as barges, lighters and pontoons placed by flotation loading through said gate means into predetermined locations within said hold,

hold-down means for holding each said carrier down against the bottom of said hold to prevent movement thereof and to enable exchange of buoyancy between said carrier and said vessel when water is in said hold,

collision bulkhead means located adjacent said gate for closing said hold off in a watertightmanner, and

opening and closing means for moving said collision bulkhead means so as to enable said flotation loading and unloading of said vessel.

CLASS 40F & 84A. 145605.

Int. Cl.-C101 3/00.

PROCESS AND APPARATUS FOR PRODUCING A SULFUR-FREE COMBUSTIBLE GAS.

*Applicant* : EMISSION CONTROLS, INC., OF 2549 HARRIS AVENUE, RICHLAND, WASHINGTON 99352, UNITED STATES OF AMERICA.

*Inventor* : WILLIAM JANVAN SLYKE.

Application No. 1504/Cal/76 filed August 18, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A process for producing a hot combustible gas free of sulfur, halogens and particulate matter comprising the steps of :

(I) passing oxygen and steam through a reaction zone containing :

A. an oxide hydroxide, bicarbonate or carbonate of an alkali metal, and

B. a carbonaceous fuel containing contaminating amounts of sulfur,

wherein molar ratio of water vapor and carbon in carbonaceous fuel is between 1 : 50 and 1 : 200, the atomic ratio of oxygen to carbon present in carbonaceous fuel is between 1 : 1 to 1 : 5 and the atomic ratio of metal in metal compound to sulpur and halogens in carbonaceous fuel is not less than 2 : 1, under conditions such as herein defined so that substantially all of sulfur in the carbonaceous fuel forms metal sulfide; the oxygen, steam and carbon of the carbonaceous fuel forming a hot combustible gas mixture comprising hydrogen and carbon monoxide substantially free of sulfur wherein substantially all of the sulfur originally present in the carbonaceous fuel is removed from the reaction zone as the metal sulfide; optionally (I) reacting the metal sulfide with coal, air and steam to produce crude hydrogen sulfide and metal carbonate and recycling the metal carbonate to step I.

CLASS 71F. 145606.

Int. Cl.-E02b 3/02, E21c 37/12.

METHOD AND DEVICE FOR BREAKING A HARD COMPACT MATERIAL.

*Applicant* : ATLAS COPCO, AKTIEBOLAG, NACKA, SWEDEN.

*Inventor* : ERIK VOLMAR LAVON.

Application No. 1636/Cal/76 filed September 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims.

A method of breaking a hard compact material, such as rock, comprising : accelerating a longish mass body (11) of relatively incompressible fluid, such as water, to an impact velocity of sufficient magnitude for causing cracks to form in the material, and directing said mass body into a cavity in the material to be broken for impacting a surface in said cavity so as to break the material through the use of the presure pulse which is generated by means of a power fluid from chamber 16 and which arises in said mass body when same impacts said surface.

CLASS 98D & E & I. 145607.

Int. Cl.-F24j 3/02, 3/04.

AN APPARATUS FOR RECOVERING SOLAR ENERGY.

*Applicant* : PATTICO RIGHTS N.V., OF HANDELSKADE 24, WILLEMSTAD, CURACAO.

*Inventor* : JOSEPHUS PETRUS MARIA VAN KUIK.

Application No. 2230/Cal/76 filed December 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

Apparatus for collecting solar energy, comprising a set of fluid warming-up tubes extending in parallel and side-by-side relationship, each tube having an associated pair of substantially flat reflection surfaces diverging from said tubes at an angle, each of said surfaces being tangent to a circular cylindrical circumferential surface coaxial to the tube, said reflection surfaces reflecting the incident sun rays towards the tube while maintaining their bisector plane directed to the sun, and being pivotal, characterized in that said reflection surfaces are also movable with a direction component transverse to the plane defined by the tubes.

CLASS 129G. 145608.

Int. Cl.-B23p 3/02.

A METHOD FOR THE MANUFACTURE OF CLADDED BARS, FLATS, SHEETS OR STRIPS.

*Applicant & Inventor* : RAJIV MONGA, OF 17 CAMAC STREET, CALCUTTA-700017, INDIA.

Application No. 512/Cal/77 filed April 5, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A process for the manufacture of cladded metallic bars, sheets or strips which comprises in first initial bonding at least one bar to be cladded to at least one cladding bar, thereafter subjecting the bars to hot rolling to cause a firm bond between said bars, characterised in that said initial bonding consists in holding said bars, heating said bars in a furnace to a temperature below the melting temperature of said metals, removing bars from said furnace and relieving the bonding stresses therefrom and thereafter subjecting said bars, while being in a heated state, to said step of hot rolling.

CLASS 13A & 99H. 145610.

Int. Cl.-B65b 61/18, B65d 55/06.

IMPROVEMENTS IN OR RELATING TO DISPOSABLE PILFER PROOF BAGS OR CONTAINERS.

*Applicant & Inventor* : GEORGE DEVADUTHA BUELL, C/O M. M. ANSAR, 204, ANGAPPA NAIEK STREET, MADRAS-600 001, TAMILNADU, INDIA.

Application No. 44/Mas/77 filed February 23, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims.

A disposable pilfer-proof bag or container of a flexible substance, like polythene, wherein the container is divided into two compartments, a first compartment being filled with a desired fluid, and a second compartment being provided with suction means to one end of which is attached a piercing or tearing element, and the other free end of which suction means is connected to or extends into the said first compartment.

CLASS 32F1 & F2a. 145613

Int. Cl. C07c 87/60

PROCESS FOR PREPARING 2, 6-DINITROANILINE HERBICIDES.

*Applicant* : AMERICAN CYANAMID COMPANY, OF WAYNE, NEW JERSEY, UNITED STATES OF AMERICA.

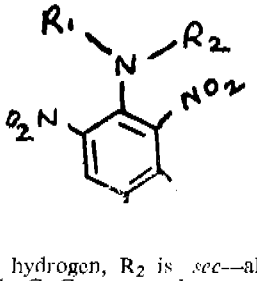
*Inventors* : ALBERT WILLIAM LUTZ AND ROBERT EUGENE DIEHL.

Application No. 2170/Cal/76 filed December 8, 1976.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

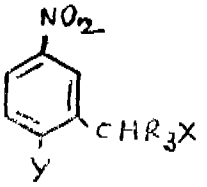
3 Claims.

A method for the preparation of a compound having the forumla I.

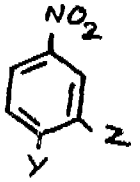


wherein $R_1$ is hydrogen, $R_2$ is *sec*—alkyl $C_3C_7$ monochloro—*sec*—alkyl $C_3$-$C_4$ or methoxy – *sec*—alkyl $C_3$-$C_4$; Z is $-CHR_3OCH_3$, $R_3$ being hydrogen or $-CH_3$ ; and Y is chloro or alkyl selected from the group consisting of—$CH_3$, $-C_2H_5$, n - $C_3H_7$, *i* $C_3H_7$, *sec* $C_4H_9$ and *i*—$C_4H_9$ and compounds of ormula (I) selected from the group wherein : $R_1$ is hydrogen;

Z is $—CH_3$; and $R_2$ and Y respectively are $—CH(C_2H_5)_2$ and $i—C_3H_7$ or $—CH(C_2H_5)_2$ and $—C_2H_5$ or $—CH(C_2H_5)$ and $sec—C_4H_9$ or $—CH(C_2H_5)_2$ and $n—C_3H_7$ or $—CH(C_2H_5)_2$ and $n—C_4H_9$ or $i—C_3H_7$ and $C_2H_5$ or $sec—C_4H_9$ and $C_5$ or $i—C_3H_7$ and $i—C_3H_7$ or $sec—C_4H_9$ and $i—C_3H_7$ or $—CH(C_2H_5)$ ($CH_2Cl$ and $—Cl$ or $—CH(CH_3)—n—C_3H_7$ and $—C_2H_5$ or $CH(C_2H_5)$ $CH_2Cl$ and $—C_2H_5$ or $—CH(CH_3)$ $CH_2Cl$ and $—C_2H_5$ or $—CH(CH_3)CH_2CH_2Cl$ and $—C_2H_5$ or $—CH(C_2H_5)—n—C_3H_7$ and $—C_2H_5$ or $sec—C_4H_9$ and $n—C_3H_7$ or $—CH(CH_3)—n—C_3H_7$ and $n—C_3H_7$ or $—CH(CH_3)—n—C_3H_7$ and $i—C_3H_7$ or $—CH(C_2H_5)$ $CH_2Cl$ and $n—C_3H_7$ or $—CH(CH_3)CH_2Cl$ and $i—C_3H_7$ or $—CH(CH_3)CH_2Cl$ and $n—C_3H_7$ or $—CH(CH_3)CH_2CH_2Cl$ and $n—C_3H_7$ or $—CH(CH_3)$ $CH_2CH_2Cl$ and $i—C_3H_7$ or $CH(C_2H_5)—n—C_3H_7$ and $n—C_3H_7$ or $—CH(C_2H_5)—n—C_3H_7$ and $i—C_3H_7$ or $—CH(CH_3)CH_2—OCH_3$ and $—C_2H_5$ or $—CH(CH_3)CH_2OCH_3$ and $n—C_3H_7$ or $CH(CH_3)CH_2OCH_3$ and $i—C_3H_7$/or $—CH(C_2H_5)CH_2OCH_3$ and $i—C_3H_7$ or $—CH(CH_3)$ $CH_2CH_2$ $OCH_3$ and $—CH_3$ or $—CH(CH_3)CH_2CH_2$ $OCH_3$ and $C_2H_5$ or $—CH(CH_3)$ $CH_2CH_2$ $OCH_3$ and $n—C_3H_7$ or $CH(CH_3)CH_2$ $CH_2OCH_3$ and $i—C_3H_7$ ; and compounds of formula (1) selected from the group wherein $R_1$ is hydrogen, $R_2$ is $i—C_4H_9$ or $n—C_3H_7$, Z is $CH_2OCH_3$ ; and Y is $i—C_3H_7$ or $—CH_3$ or $—C_2H_5$ $R_1$ is hydrogen, $R_2$ is $—CH(C_2H_5)_2$, Y is $n$ $C_4H_9$ and Z is $CH_2OCH_3$, $R_1$ is H, $R_2$ is $—C_4H_9$, Z is $—CH_2OCH_3$ and Y is $i—C_3H_7$ $R_1$ is H, $R_2$ is $i—C_3H_7$, Z is $CH_2$ $OCH_3$ and Y is $n—C_4H_9$ ; $R_1$ is H, $R_2$ is $—CH(C_2H_5)_2$, Z is $—CH_2$ $—O—C_2H_5$ and Y is $CH_3$ comprising, reacting a compound having the formula 1A.

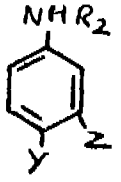



wherein X is chloro, bromo, or tosyl, $R_3$ is H or $CH_3$, and Y is as described above, with at least an equimolar amount of an alkali metal methoxide or alkali metal ethoxide, in the presence of a lower (Alkyl) alcohol or non-protic organic solvent, at a temperature between ambient temperature and 90°C, to yield, a compound having the formula 1B.




wherein Y is as described, and is $—CH_2$ $OCH_3$, $CHOCH_3$ (with $CH_3$ below) or $CH_2$ $OC_2H_5$ ;

and subjecting the thus-formed nitro-benzyl ether to a reductive alkylation using the appropriate ketone in the presence of hydrogen and in presence of catalyst selected from the group consisting of platinum or palladium alone or deposited on an inert carrier, to yield a compound haivng the formula 1C.




wherin $R_2$, Y and Z are as described above ; and then nitrating the thus—formed amine with a mixture of nitric acid and concentrated sulfuric acid to yield the above identified compound 2, 6-dinitroaniline having the formula 1.

CLASS 90F & I. 145616.

Int. Cl.-C03b 37/00.

METHOD AND APPARATUS FOR MANUFACTURING GLASS FIBRES USING DEFLECTABLE AIR CURTAIN.

*Applicant* : NITTO BOSEKI CO., LTD., OF NO. 1, AZA HIGASHI, GONOME, FUKUSHIMA-SHI, FUKUSHIMA, JAPAN.

*Inventors* : TAKESHI WATANABE, KAZUO NISHIMAKI, KAZUO SHIMANUKI, KATUO MITA AND SATORU KONNO.

Application No. 1206/Cal/77 filed August 4, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

In a method for draw forming glass filaments wherein molten glass flows through holes in an orifice plate on the bottom of an elevated melt furnace to form a plurality of individual filaments which are collected and drawn downwardly by winding means, and wherein a heat shielding air curtain is established between a supply duct adjacent the furnace a floor exhaust duct to protect the operator, the improvement characterized by : deflecting the air flow across the bottom of the orifice plate at least during the initial start-up period of the filament forming operation, to thereby cool the molten glass cones formed at the orifice plate hole exists and increase their viscosity to prevent adjacent cones and filaments from converging together.

CLASS 130F. 145617.

Int. Cl.-C22b 15/00, 17/00, 19/00.

HYDROMETALLURGICAL PROCESS FOR THE RECOVERY OF ZINC, COPPER, AND CADMIUM FROM THEIR FERRITES.

*Applicant* : OUTOKUMPU OY, OUTOKUMPU, FINLAND.

*Inventors* : SIGMUND PEDER FUGLEBERG, AIMO ENSIO JARVINEN, KAUKO JOHANNES KARPALE AND JUSSI KALEVI RASTAS.

Application No. 1312/Cal/77 filed August 22, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

In a hydrometallurgical process for the recovery of a solution of zinc, copper, and cadmium from their ferrites comprising treating the ferrites under atmospheric conditions in a sulfuric acid-bearing solution in the presence of potassium, sodium, or ammonium ions at 80-105°C in order to precipitate, as jarosite, the iron present in the ferrites, separating a jarosite-bearing solid from the solution, feeding the solution to a neutral leach stage, to which acid and calcine are also fed and from which another solution containing zinc, copper and cadmium is recovered, and feeding the ferrite-bearing solid to the ferrite treatment stage; the improvement of recycling either directly to the ferrite treatment stage or first to the neutral leach stage and then to the ferrite treatment stage a portion of the jarosite-bearing solid obtained from the ferrite treatment stage.

CLASS 32F. 145618.

Int. Cl.-C07c 39/30.

AN IMPROVED PROCESS FOR THE PRODUCTION OF PURE 2, 4-DI-CHLOROPHENOL.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG NEW DELHI-110 001, INDIA.

*Inventors* : SAIID HUSAIN PILLARISETTY ANANDA SWAROOP MUMTAZ ABDUL KHALEEL AKMAL MOHAMMED KIFAYATULLAH, RAJAGOPALAN, VAIDYESWARAN.

Application No. 83/Del/77 filed April 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims. No drawings.

An improved process for the production of pure-2, 4-dichlorophenol by chlorination of phenol characterised in that the chlorination is carried out in the presence of a low molecular weight fatty acid solvent by passing carbon dioxide and chlorine gases through a mixture of the said solvent and phenol at a temperature range of 35-85°C. till all the phenol has reacted, the pure 2, 4-dichlorophenol is separated from the reaction mass comprising the solvent and residual monochloro phenol.

## OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by Steelsworth Limited to the grant of a patent on Application No. 144426 made by Chong Min Ho.

(2)

An opposition has been entered by Steelsworth Limited to the grant of a patent on Application No. 144429 made by Chong Min Ho.

(3)

The opposition entered by A. R. Das Gupta of Eastern Carbons, Dhanbad to the grant of a patent on application No. 136965 made by Council of Scientific and Industrial Research, as notified in part III, Section 2 of the Gazette of India dated the 27th September 1975 has been allowed in part and the application for patent has been refused.

(4)

The application for patent No. 143263 made by Dr. Kulasekara Perumal Mahadevan Pillai in respect of which an opposition was entered by Shri Gowrah Praveen, as notified in Part III, Section 2 of the Gazette of India dated the 22nd April 1978 has been refused.

(5)

The application for patent No. 143270 made by Dr. Kulasekara Perumal Mahadevan Pillai in respect of which an opposition was entered by Shri Gowra Praveen, as notified in Part III, Section 2 of the Gazette of India dated the 22nd April 1978 has been refused.

(6)

The application for patent No. 142589 made by Vilas Anandrao Kale in respect of which an opposition was entered by Union Carbide India Limited, as notified in Part III, Section 2 of the Gazette of India, dated the 18th February 1978 has been treated as withdrawn.

## CORRECTION OF CLERICAL ERRORS UNDER SECTION 78(3)

(1)

The title of the invention in the application and specification of application for patent No. 142142 (earlier numbered as 1532/Cal/74) the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 4th June, 1977 has been corrected to read as "A composition for the inhibition of corrosion of steel in cooling water systems" under Section 78(3) of the Patents Act, 1970.

(2)

The title of the invention in the application & specification and also the opening description of the specification of application for patent No. 142449 (earlier numbered as 284/Cal/75) the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 9th July, 1977 has been corrected to read as "A method and device for welding polyolefinic objects and polyolefinic welded shaped articles obtained therefrom" under Section 78(3) of the Patents Act, 1970.

(3)

The title of the invention in the application and specification of application for patent No. 142536 (earlier numbered as 1439/Cal/75), the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 23rd July, 1977 has been corrected to read as "A circuit interrupter for a distribution transformer and a transformer incorporating a housing with a circuit interrupter" under Section 78(3) of the Patents Act, 1970.

(4)

The title of the invention in application and specification as well as the opening description of the specification of application for patent No. 142570 (earlier numbered as 1216/Cal/74), the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 30th July, 1977, has been corrected to read as "A method and apparatus for forming laminated glass assembly or sheet material including windows for vehicles and laminated glass sheet material thus obtained" under Section 78(3) of the Patents Act, 1970.

(5)

The title of the invention in the application and specification of application for patent No. 142620 (earlier numbered as 1882/Cal/75), the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 6th August, 1977, has been corrected to read as "Apparatus for supporting a silver can and for controlling the quantity of material contained therein" under Section 78(3) of the Patents Act, 1978.

(6)

The title of the invention in the application and specification of application for patent No. 142909 (earlier numbered as 2067/Cal/75) the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 10th September, 1977 has been corrected to read as "A signal smoothing device for smoothing disturbances in the wave form of an electrical signal and its use in a control set for producing firing pulses for controllable rectifier elements", under Section 78(3) of the Patents Act, 1970.

(7)

The title in the application and specification for patent No. 143030 (earlier number as 607/Cal/75) made by French State, as represented by the Ministerial Delegate for Armament, France, the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 24th September, 1977 has been corrected to read as 'Power Plant' under Section 78(3) of the Patents Act, 1970.

(8)

The title of the invention in the application, specification and also the opening description of the specification of patent application No. 143038 (earlier numbered as 2325/Cal/74) the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 24th September, 1977 has been corrected to read as "Method and apparatus for constructing compact formation and compact formations thus obtained", under Section 78(3) of the Patents Act, 1970.

(9)

The title of the invention in the application and specification as well as the opening description of the specification of Patent application No. 143160 (earlier numbered as 812/Cal/77) the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 8th October, 1977, has been corrected to read as "Method of coating paper with a solvent hold-out solution and paper thus coated" under Section 78(3) of the Patents Act, 1970.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8 Hastings Street, Calcutta, at two rupees per copy :—

(1)

139708 139720 139723 139724 139726 139727 139738 139751 139752

(2)

122665

(3)

119087 133959 134118 135185

(4)

80528 118993 125773 134908 135077

(5)

136898 136901 136902

(6)

134332 137171

(7)

137540 137546 137547 137550

(8)

134436 137625 137630 137638 137658

(9)

116972

(10)

116602

(11)

111318 115306 115406 115691 115777 116412 117263 120357

## PATENTS SEALED

143364 143367 143413 143432 143448 143457 143468 143476 143478 143485 143503

## AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

Notice is hereby given that Ciba—Geigy AG., a Swiss Corporation, of Klybeckstrasse 141, Basle, Switzerland, Chemical Manufacturers, have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for patent No. 141639 for "Process for the preparation of non-dusty, easily wetted and readily soluble granulates". The amendments are by way of explanation and correction. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Chandra Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment file a notice of opposition on the prescribed form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

(2)

The amendments proposed by Egyt Gyogyszervegyeszeti Gyar in respect of patent application No. 139983 as advertised in Part III, Section 2 of the Gazette of India dated the 17th June, 1978 have been allowed.

(3)

The amendments proposed by Hoechst Aktiengesellschaft in respect of patent application No. 143735 as advertised in Part III, Section 2 of the Gazette of India dated the 24th June, 1978 have been allowed.

(4)

The amendments proposed by the Indian Space Research Organisation in respect of application for Patent No. 143962 as advertised in Part III, Section 2 of the Gazette of India dated the 13th May, 1978 have been allowed.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.

### (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patents have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

127492—M/s Vakuum Vulk Holdings Ltd.
137277—M/s. Reichhold Chemicals, Inc.

## RENEWAL FEES PAID

89736 90126 90307 90350 90409 90840 91051 91433 95914 95973 95997 96162 96184 96196 96337 96503 96535 97387 101696 101822 102058 102171 102204 102229 102260 102347 102546 102683 103045 107382 107419 107481 107543 107588 107619 107683 107753 107996 108013 108068 108099 108100 108394 111466 112223 112389 112771 112783 112848 112857 112858 112982 113072 113204 113363 113655 113712 114519 116942 117895 118057 118170 118201 118233 118318 118351 118390 118398 118399 118416 118500 118533 118543 118563 118583 118591 118618 118637 118703 118704 118779 119990 122580 123330 123331 123489 123496 123506 123691 123748 123799 123827 123973 123891 123892 123894 124239 124594 125323 127076 127710 127877 128743 128889 128901 128976 129077 129103 129154 129185 129211 129257 129260 129403 129487 129618 129687 131215 132113 132324 132830 133103 133232 133255 133270 133326 133328 133409 133551 133660 133698 135061 135319 135351 135892 135933 136116 136249 136307 136338 136443 136522 136651 136749 136890 137203 137299 137906 138036 138118 138131 138183 138419 138496 138686 138826 138964 139115 139235 139273 139308 139353 139508 139509 139608 139659 139894 139996 140097 140099 140133 140141 140337 140594 140600 140672 140705 140706 140877 140889 141032 141403 141498 141732 141969 142308 142759 142817 142836 142858 142864 142930 142957 142959 142990 143025 143041 143087 143090 143095 143097 143156 143171 143191 143203 143328 143438 143481

## CESSATION OF PATENTS

104532 110670 111044 115457 115458 115459 115460 115466 115467 115475 115476 115483 115487 115492 115499 115538 115571 115573 115577 115610 115618 115631 115636 115643 115674 115675 115683 115687 115691 115704 115706 115709 115725 115727 115741 115757 115762 115771 115772 115773 115777 115791 115792 115796 115805 115806 115808 115810 115811 115846 115850 115851 115865 115870 115876 115878 115879 115889 115896 115903 115916 115928 115941 115954 115977 115988 111044 118974 118975 123797 128782 140725

## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 119858 granted to Olle Lennart Siwersson and Karl Gunnar Telle for an invention relating to "Improvements in or relating to devices for supplying materials to the entrance ends of conveyors comprising screws and conduits therefor". The patent ceased on the 15th February, 1978 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 23rd September, 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 18th January, 1979 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 136419 granted to Council of Scientific and Industrial Research for an invention relating to 'Improvemnets in or relating to the application of reactive dyes to cellulosic protein and synthetic fibres and their blands". The patent ceased on the 28th December, 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III Section 2 dated the 16th October, 1978.

Any interested person may give notice of opposition of the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 18th January, 1979 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application for restoration of Patent No. 140168 dated the 30th April, 1975 made by The Director, All India Institute of Medical Sciences on the 17th February, 1978 and notified in the Gazette of India, Part III, Section 2 dated the 13th May, 1978 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 140169 dated the 30th April, 1975 made by The Director, All India Institute of Medical Sciences on the 17th February, 1978 and notified in the Gazette of India, Part III, Section 2 dated the 13th May, 1978 has been allowed and the said patent restored.

## REGISTRATINO OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. Nos. 146327 to 146331. Hercules Products, 55, Raj Baug Estate, Pydhonie, Bombay-400 003, State of Maharashtra, an Indian Partnership Firm. "Burner". December 9, 1977.

Class 1. No. 146352. Mukachevsky Stankostroitelny Zavod *Iment* S. M. Kirova, Zakarpatskaya Oblast, Mukachevsky raion, selo Kolchino, U.S.S.R., an organisation duly organized and existing under the laws of the USSR. "Machine for machining band saws". December 16, 1977.

Class 1. Nos. 146464 to 146466. Zenith Industrial Equipments, a sole proprietory Indian firm of Vasantlal Manilal Shah, an Indian, both of 14/1/1A, Jackson Lane, Calcutta-700 001, West Bengal, India. "Acid cage for fire extinguishers". January 2, 1978.

Class 1. No. 146526. Madanlal Kedarnath Gupta, Indian National, of 20, Wadi Bunder Road, Mazgaon, Bombay-400 010, Maharashtra, India, "Tray". January 16, 1978.

Class 1. No. 146551 & 146552. Vasant Jhaverti, C/o Chemitex Import Co., Usman Manzil, Near Zakaria Masjid, Relief Road, Ahmedabad-1, Gujarat State, India, an Indian National, "Cylinder for a temple roller for a loom". January 20, 1978.

Class 1. No. 146561. Sachin Engineering Corporation, Marathe Udyog Bhavan, Appasaheb Marathe Marg, Bombay-400 025, Maharashtra State, India, an Indian Proprietorship Concern. "Navigation lights". January 25, 1978.

Class 1. No. 146685. Wima (India), 505, Churchgate Chambers, 5, New Marine Lines, Bombay-400 020, Maharashtra India, an Indian Proprietory Firm. "Air heater". February 14, 1978.

Class 3. Nos. 146467 to 146469. Zenith Industrial Equipments, a sole proprietory Indian firm, of Vasantlal Manilal Shah, an India, both of 14/1/1A, Jackson Lane, Calcutta-700 001, West Bengal, India. "Acid cage for fire extinguishers". January 2, 1978.

Class 3. Nos. 146502 & 146503. Dolly Toys Industries, a registered partnership firm of D-34, Rajouri Garden, New Delhi-110027, India. "Toys". January 6, 1978.

Class 3. No. 146504. Dolly Toys Industries, a registered partnership firm of D-34, Rajouri Garden, New Delhi-110027, India. "Toys". January 7, 1978.

Class 3. No. 146532. Brahma Bharati Udyog, 119, Adhyaru Industrial Estate, Sunmill Compound, Sunmill Road, Lower Parel, Bombay-400 013, Maharashtra, India, an Indian Partnership firm. "Container with spoon". January 17, 1978.

Class 3. No. 146540. Bombay Burma Plastics, 119, Adhyaru Industrial Estate, Sunmill Compound, Sunmill Road, Lower Parel, Bombay-400 013, Maharashtra, an Indian Partnership Firm. "Jug". January 17, 1978.

Class 4. No. 146560. Shyamal Kishore Goenka, an Indian National, Cantonment Road, Cuttack (Orissa), India. "Bottle". January 24, 1978.

Class 8. Nos. 146600 to 146627. W. H. Deeth Private Limited, a company registered in India, of 33/34, Dr. Annie Besant Road, Worli, Bombay-400 018, State of Maharashtra, India. "Floor coverings". February 2, 1978.

## COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design Nos. 140987, 141097, 141239.....Class 1.

Design Nos. 140952, 140953, 140954, 141192, 141426, and 141427 ..... Class 3.

Design No. 141240..... Class 4.

Design Nos. 138770, 138771 & 138772. ..... Class 12.

## COPYRIGHT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS

Design Nos. 134612, 134613, 134614, 134615, 134616, 134617 & 134950.....Class 4.

Design Nos. 138770, 138771 & 138772.....Class 12.

Name Index of Applicants for Patents for the month of August 1978 (Nos. 835/Cal/78 to 960/Cal/78, 229/Bom/78 to 263/Bom/78, 116/Mas/78 to 145/Mas/78 and 564/Del/78 to 648/78.

Name Appln. No.

(A)

Air Preheater Company, Inc., The.—938/Cal/78.

Alchemie Research Centre Private Limited.—247/Bom/78, 248/Bom/78, 249/Bom/78, 250/Bom/78, 251/Bom/78, 252/Bom/78.

Allware Agencies Limited.—943/Cal/78.

Aluminium Company of America.—610/Del/78.

American Cyanamid Company.—852/Cal/78, 953/Cal/78.

American Home Products Corporation.—916/Cal/78.

Ammeraal Nederland B.V.—886/Cal/78.

Armco, Inc.—586/Del/78.

Asahi Denka Kogyo K.K.—630/Del/78.

Atlas Automotive Components Division of Indokem, Pvt. Ltd.—245/Bom/78.

Automotive Products Limited.—622/Del/78, 623/Del/78, 624/Del/78, 633/Del/78, 639/Del/78.

Ayyar, K. S.—145/Mas/78.

(B)

Bakshi, D. (Dr.)—884/Cal/78.

Bakshi, G. S.—238/Bom/78.

Balfour Beatty Limited.—572/Del/78.

Banerjee, S.K.—850/Cal/78.

Bapna, A.S. (Dr.)—590/Del/78.

Basu, R. (Dr.)—885/Cal/78.

Bayer Ektiengesellschaft.—591/Del/78, 592/Del/78, 593/Del/78, 643/Del/78.

Bharat Bijlee Limited.—237/Bom/78.

Bhattacharyya, B. C.—918/Cal/78.

Biswas, J. N.—860/Cal/78.

Boots Company Limited, The.—927/Cal/78.

Name Appln. No.

B—contd.

Brennstoffinstitut Freiberg.—862/Cal/78, 868/Cal/78.

British Airports Authority.—901/Cal/78.

Buckman Laboratories, Inc.—835/Cal/78.

Budapesti Radiotechnikai Gyar.—637/Del/78.

Bunker Ramo Corporation.—914/Cal/78.

Burroughs Corporation.—866/Cal/78.

(C)

Camphor & Allied, Products Limited.—258/Bom/78.

Celfil Company Establishment.—584/Del/78.

Charcon Tunnels Limited.—565/Del/78.

Chawla, P.—955/Cal/78.

Chemetron Corporation.—569/Del/78, 570/Del/78.

Chinoin Gyogyszer Es Vegyeszeti ter Mekek Gyara Rt.—899/Cal/78.

Chitrao, S.S. (M.M. Dr).—234/Bom/78, 254/Bom/78, 256/Bom/78.

Chlorine Engineers Corp., Ltd.—928/Cal/78.

Council of Scientific and Industrial Research.—564/Del/78, 583/Del/78, 588/Del/78, 589/Del/78, 596/Del/78, 597/Del/78, 598/Del/78, 620/Del/78, 640/Del/78.

(D)

DSO "Pharmachim"—939/Cal/78.

Das, M.K.—859/Cal/78.

Das, P.C.—908/Cal/78.

Dattatraya, T.S.—229/Bom/78.

De, A. K. (Dr.)—246/Bom/78.

"December 4" Drotmuvek.—948/Cal/78.

Delhi Cloth & General Mills Co. Ltd.—601/Del/78.

Development Consultants Private Limited.—960/Cal/78.

Dham, G.S. 242/Bom/78, 243/Bom/78.

Dharchaudhuri, S.—935/Cal/78.

Director, Central Council for Research in Indian Medicine and Homocopathy, The.—604/Del/78.

Director, Indian Institute of Technology, Bombay, The.—246/Bom/78.

Director, Shri Amriteshwar Trust.—254/Bom/78, 256/Bom/78.

Director General, Cement Research Institute of India, The.—613/Del/78, 625/Del/78, 646/Del/78, 647/Del/78, 648/Del/78.

Dixit, R. N. (Dr.)—231/Bom/78.

Dobson, F.T.—875/Cal/78.

Dye, A.O.—585/Del/78.

Dynamit Nobel Aktiengesellschaft.—873/Cal/78.

(E)

E.I. Du Pont De Nemours and Company.—871/Cal/78.

Eagle Flask Private Ltd.—232/Bom/78.

Eastern Carbons—956/Cal/78.

Environmental Elements Corporation.—848/Cal/78.

Ethicon Inc.—897/Cal/78, 920/Cal/78.

Europaische Atomgemeinschaft (Euratom).—882/Cal/78.

(F)

F. Hoffmann-La Roche & Co. Aktiengesellschaft.—949/Cal/78.

Name Appln. No.

F—contd.

Ferodo Limited.—566/Del/78, 567/Del/78, 571/Del/78.

Finommechanikai Vallalat.—851/Cal/78, 876/Cal/78.

(G)

G. D. Societa Per Azioni.—594/Del/78.

G.S.K. Steel Developments Limited.—879/Cal/78.

Gastrock, E.A.—587/Del/78.

Gersonde, K. (Prof. Dr.)—641/Del/78.

Girling Limited.—634/Del/78.

Glatt. W.—941/Cal/78.

Gosudarstvenny Nauchno-Issledovatelsky Institut Mashinovedenia.—954/Cal/78.

Gottfried Bischoff Bau Kompl. Gasreini gungs-Und Wasserruckk-Uhlangen GMBH Co. Kommanditgesellschaft.—836/Cal/78.

Govindaraj, V(Mrs.).—615/Del/78.

Gratzmuller, J. L.—926/Cal/78.

Griescheim GMBH.—841/Cal/78, 842/Cal/78, 843/Cal/78, 844/Cal/78, 845/Cal/78, 846/Cal/78, 847/Cal/78.

Guest, J. D.—568/Del/78.

Guha, S.K.—599/Del/78, 600/Del/78.

Guigan, J.—581/Del/78.

(H)

Haichem Limited.—134/Mas/78, 135/Mas/78, 136/Mas/78, 137/Mas/78, 138/Mas/78.

Hari, S.V.—233/Bom/78 .

Hindustan Electro Graphites Ltd.—579/Del/78.

Hindustan Lever Limited.—261/Bom/78.

Hoechst Aktiengesellschaft.—872/Cal/78, 889/Cal/78.

Hoon, R.S.—607/Del/78.

(I)

IDL Chemicals Limited.—128/Mas/78.

Imi Kynoch Limited.—595/Del/78.

Indian Cable Company Limited, The.—921/Cal/78

Indian Institute of Technology, Bombay.—246/Bom/78.

Indian Institute of Technology—132/Mas/78.

Indian Splicing (Mechanical) & Accessories Ltd.—878/Cal/

International Bio-Medical Industries, Inc,—609/Del/78.

International Standard Electric Corporation.—863/Cal/78.

Iyer, S.G.—118/Mas/78, 119/Mas/78, 121/Mas/78, 122/Mas/78, 130/Mas/78, 133/Mas/78.

(J)

Johns-Manville Corporation.—861/Cal/78, 891/Cal/78.

Johnson & Johnson.—880/Cal/78, 881/Cal/78.

Joseph, P.D.—126/Mas/78.

Joy, P.T.—244/Bom/78.

K

Kabel-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft.—907/Cal/78.

Kandaswamy, C.A.—123/Mas/78.

Kandlikar, S.G. (Dr.)—246/Bom/78.

Kartronics.—839/Cal/78, 840/Cal/78.

Khan, A.A.—837/Cal/78.

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K—Contd.

Khandekar, S.K.—856/Cal/78, 857/Cal/78, 858/Cal/78.

Kobe Steel Ltd.—923/Cal/78.

Koppelman, E.—904/Cal/78, 925/Cal/78.

Kraftwerk Union Aktiengesellschaft.—869/Cal/78.

Kumiai Chemical Industry Co., Ltd.—957/Cal/78.

(L)

Larsen, O.F.—933/Cal/78, 934/Cal/78.

Lauenburg, R.A.—944/Cal/78.

Littlechild, D.H.—585/Del/78.

Lodge-Cottrell Limited.—580/Cal/78.

(M)

M. L. Aviation Company Limited.—950/Cal/78.

Macgregor International S.A.—946/Cal/78.

Mahurkar, S.D.—259/Bom/78.

Majumdar, A.—909/Cal/78.

Manik Metals & Trading Co. Pvt. Ltd.—235/Bom/78.

Marley Company, The.—838/Cal/78.

Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft.—917/Cal/78.

Metallizing Equipment Co.—574/Del/78.

Miles Laboratories, Inc.—573/Del/78.

Miller, G.D.—617/Del/78.

Mittal, B.L.—611/Del/78, 612/Del/78.

Modak, S.D.—253/Bom/78.

Morgardshammar Aktiebolag.—636/Del/78.

Moteurs Leroy-Somer.—867/Cal/78.

Muhammad, C.P.—131/Mas/78.

Mukherjee, S.—935/Cal/78.

Mura, A.—931/Cal/78.

(N)

N. V. Philips' Gloeilampen-fabrieken.—877/Bom/78.

Nene, M.W.—257/Bom/78.

Nitto Boseki Co. Ltd.—864/Cal/78.

(O)

O'Brien, H.W. (Jr.)—642/Del/78.

Oswal, S.K.—240/Bom/78.

Outokumpu OY.—915/Cal/78.

(P)

Palomer, E.P.—947/Cal/78.

Pandit, G.P.—117/Mas/78, 139/Mas/78.

Pardhy, S.D.—241/Bom/78.

Patel, G.C.—263/Bom/78.

Patel, G.V.—262/Bom/78.

Patel, V.A.—262/Bom/78.

Phenoweld Polymer Private Limited.—255/Bom/78.

Polar Auto & General Engineering Industries Pvt. Ltd.—577/Del/78.

Polymers and Resine Private Limited.—140/Mas/78.

Poon, C.C.—887/Cal/78.

Produits Chimiques Ugine Kuhlmann.—632/Del/78.

Proizvodstvennoe Obiedinenie Turbostroenia "Leningradsky Metallichesky Zavod".—900/Cal/78.

Name Appln. No.

P—Contd.

Projektierung Chemische Verfahrenstechnik Gesellschaft Mit Beschrankter Haftung.—898/Cal/78.

Pun, C.W.—887/Cal/78.

Puthenangadi, K.I.—116/Mas/78.

(R)

Racold Appliances Pvt. Ltd.—575/Del/78, 576/Del/78.

Raju, Ch. A. N.—922/Cal/78.

Raju, R.J.—143/Mas/78.

Ramanathan, K.I.—141/Mas/78.

Ram, K.S.—124/Mas/78, 125/Mas/78, 127/Mas/78.

Ramchandran, S(Mrs.)—230/Bom/78.

Rao, N.K.—120/Mas/78.

Registrar, Indian Institute of Technology.—918/Cal/78.

Richter Gedeon Vegyeszeti Gyar RT.—932/Cal/78.

Rogers Corporation.—603/Del/78.

Rohm & Haas Company.—621/Del/78.

Royal Tool Company, Inc.—855/Cal/78.

Rumyantsev, V.V.—944/Cal/78.

Ruti-Te Strake B.V.—936/Cal/78, 937/Cal/78.

(S)

Sahakari, V.D.—239/Bom/78.

Saint-Gobain Industries.—892/Cal/78, 893/Cal/78, 894/Cal/78, 895/Cal/78, 896/Cal/78, 906/Cal/78.

Schob, F.W.F.—951/Cal/78.

Schweissindustrie Oerlikon Buhrle AG.—883/Cal/78.

Sciaky Bros, Inc.—952/Cal/78.

Sherwood, W.L.—582/Del/78.

Shri Amriteshwar Trust,—254/Bom/78, 256/Bom/78.

Siemens Aktiengesellschaft.—888/Cal/78, 890/Cal/78, 929/Cal/78, 930/Cal/78, 958/Cal/78, 959/Cal/78.

Singh, R.—626/Del/78.

Smithkline Corporation.—635/Del/78.

Smith Kline & French Laboratories Limited.—619/Del/78.

Societe De Paris ET DU Rhone.—602/Del/78, 616/Del/78, 853/Cal/78, 854/Cal/78.

Societe D'Etudes DE Machines Thermiques S.E.M.T.—618/Del/78.

Societe Minemet Recherche.—942/Cal/78.

Srinivasan, V.—142/Mas/78.

Studiengesellschaft Kohle MBH 641/Del/78.

Subramoney, N. (Dr.)—141/Mas/78.

Sundaram, C.S.M.—124/Mas/78, 125/Mas/78, 127/Mas/78.

(T)

T. Sendzimir Incorporated.—902/Cal/78, 903/Cal/78, 911/Cal/78, 912/Cal/78, 913/Cal/78.

Tamilnadu Chromates and Chemicals Limited.—144/Mas/78.

Tata Engineering and Locomotive Co. Ltd. 236/Bom/78.

Telefonaktiebolaget L M Ericsson.—627/Del/78.

Texaco Development Corporation.—910/Cal/78.

Thadhani, B.R.—578/Del/78.

Tractel Firfor India Private Limited.—945/Cal/78.

(U)

Union Carbide Corporation—608/Del/78, 631/Del/78, 638/Del/78.

(V)

Vaswani, R.L.—260/Bom/78.

Veb Filmfabrik Wolfen.—874/Cal/78.

Venkatasubbiah, S.P.—129/Mas/78.

Vladimirova, L.K.—944/Cal/78.

(W)

Waggonfabrik Uerdingen A.G.—605/Del/78 606/Del/78.

Wanschura, E.—905/Cal/78.

Welding Institute, The.—919/Cal/78.

Werding, W.J.—870/Cal/78.

Werkzeugmaschi Nenfabrik Oerlikon-Buhrle AG.—628/Del/78, 629/Del/78, 644/Del/78.

Hoon, R.S.—607/Del/78.

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Westinghouse Electric Corporation.—849/Cal/78.

(Y)

Yamada Machinery Industrial Co. Ltd.—865/Cal/78.

Yodha Udyog.—614/Del/78.

(Z)

Zellweger Uster Ltd.—924/Cal/78.

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